

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No: 10/560,387
Applicants: Beatriz Dominguez et al.
Filed: Herewith
Title: LIGANDS
TC/A.U.:
Examiner:

INFORMATION DISCLOSURE STATEMENT

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO/SB/08A and PTO/SB/08B submitted herewith. A copy of the references listed on the PTO/SB/08A and PTO/SB/08B, other than U.S. patents, is enclosed.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

This Information Disclosure Statement is being filed concurrently with the Response to Notification of Missing Requirements in the above-referenced application. Therefore, no fee or statement is required. 37 C.F.R. § 1.97(b).

Respectfully submitted,


Christopher R. Lewis, Reg. No. 36,201
Attorney for Applicants

CRL/Irb
Enclosures: PTO/SB/08A and PTO/SB/08B
Copy of twelve (12) references

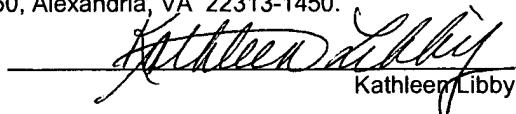
Dated: April 18, 2006

P.O. Box 980
Valley Forge, PA 19482-0980
(610) 407-0700

The Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. 18-0350 of any fees associated with this communication.

EXPRESS MAIL Mailing Label Number: EV 614760161 US
 Date of Deposit: April 18, 2006

I hereby certify that this paper and fee are being deposited, under 37 C.F.R. § 1.10 and with sufficient postage, using the "Express Mail Post Office to Addressee" service of the United States Postal Service on the date indicated above and that the deposit is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Kathleen Libby

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for Form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

SHEET 1 of 2

Complete if Known

Application Number | 10/560,387

Filing Date | Herewith

First Named Inventor **Beatriz Dominguez**

Art Unit

Examiner Name

Attorney Docket No. JMTS-139US

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	2	WO-02/066159-A1	08-29-2002	Imperial Chemical Industries PLC		<input type="checkbox"/>
	3	WO-02/057278-A1	07-25-2002	Chirotech Technology Limited		<input type="checkbox"/>
	4	WO-01/74829-A1	10-11-2001	Chirotech Technology Limited		<input type="checkbox"/>
	5	WO-97/47632-A1	12-18-1997	Merck & Co., Inc.		<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional).

²See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³Enter Office that issued the document, by the two-letter code (WIPO Standard St.3)

*Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

*For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

For Japanese patent documents, the indication of the year or the reign of the Emperor who presented the kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16. If possible.

6. Applicant is to place a check mark here if English language translation is attached.

Applicant is to place a check mark here if English language translation is attached. A collection of information is required by 32 CFR 1.97 and 1.98. The information is redacted.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for Form 1449B/PTO		<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/560,387
		Filing Date	Herewith
		First Named Inventor	Beatriz Dominguez
		Art Unit	
		Examiner Name	
SHEET 2 of 2		Attorney Docket No.	JMYS-139US

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	6	PHILIP J. PYE et al., "A New Planar Chiral Bisphosphine Ligand for Asymmetric Catalysis: Highly Enantioselective Hydrogenations under Mild Conditions," <i>J. Am Chem. Soc.</i> , 1997, Vol. 119, pp. 6207-6208.	<input type="checkbox"/>
	7	BEATRIZ DOMINGUEZ et al., "Electrophilic Substitution of Dibromoparacyclophane: A Route to Novel Paracyclophane Phosphine Ligands," <i>Organic Letters</i> , 2004, Vol. 4, No. 12, pp. 1927-1930.	<input type="checkbox"/>
	8	GLENN P. BARTHOLOMEW et al., "Synthesis, Characterization, and Spectroscopy of 4,7,12,15-[2.2]Paracyclophane Containing Donor and Acceptor Groups: Impact of Substitution Patterns on Through-Space Charge Transfer," <i>J. Am. Chem. Soc.</i> , 2002, Vol. 124, pp. 5183-5196.	<input type="checkbox"/>
	9	ANDREW PELTER et al., "The synthesis of homochiral ligands based on [2.2]paracyclophane," <i>Tetrahedron Letters</i> , 2001, Vol. 42, pp. 8391-8394.	<input type="checkbox"/>
	10	ABSTRACT: AHMED M. NOUR-EL-DIN et al, "Chemical reactions on thin-layer chromatoplates: Part I. Reactions of nitrones and [2.2]paracyclophanes," <i>Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry</i> , 1983, Vol. 22B, No. 5, pp. 477-480.	<input type="checkbox"/>
	11	SUSAN E. GIBSON et al., "[2.2]Paracyclophane derivatives in asymmetric catalysis," <i>Org. Biomol. Chem.</i> , 2003, Vol. 1, pp. 1256-1269.	<input type="checkbox"/>
	12	HANS J. REICH et al, "Macro Rings. XXXVII. Multiple Electrophilic Substitution Reactions of [2.2]Paracyclophanes and Interconversions of Polysubstituted Derivatives," <i>J. Am. Chem. Soc.</i> , 1969, Vol. 91, No. 13, pp. 3527-3533.	<input type="checkbox"/>
	13	ANTONIO ZANOTTI-GEROSA et al. , Phosphonites Based on the Paracyclophane Backbone: New Ligands for Highly Selective Rhodium-Catalyzed Asymmetric Hydrogenation," <i>Organic Letters</i> , 2002, Vol. 3, No. 23, pp. 3687-3690.	<input type="checkbox"/>
			<input type="checkbox"/>

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.